

## RETRY OF A DEVICE READ TRANSACTION

### ABSTRACT OF THE DISCLOSURE

An apparatus (11) causes invalid data to be read again from a memory device (12, 13) before  
5 being read by a device (10). A transaction queue (22) stores pending and dispatched device  
transactions, the queue includes an input for receiving (21) transactions, an output for  
dispatching (26) transactions, a pointer for pending transactions, and a pointer for dispatched  
transactions. A master controller (42) responds to an invalid data signal by preventing the  
10 transaction queue from dispatching pending transactions to the memory device, by causing the  
transaction queue to dispatch again the device read transaction which resulted in the invalid data  
and, subsequently, by causing the data which was read again from the memory device to be  
accepted by the destination device, by setting the dispatched transaction pointer to the pending  
transactions pointer, and by enabling the transaction queue to dispatch pending transactions to  
the memory device.